BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Improvements to CC Roads and RCC Drains at Left Side Cross Roads of 2nd Main Road Kuvempu Nagara, and Surrounding area in Ward No.05

BYATARAYANAPURA DIVISION

MEASUREMENT SHEET

1st & Final Bill

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
1ST AND FINAL BILL

Name of work: Improvements to CC Roads and RCC Drains at Left Side Cross Roads of 2nd Main Road Kuvempu Nagara, and Surrounding area in Ward No.05

Work Order No: BBMP / EE/ BTP/ W.O /246/2019-20 dt: 21-03-2020
JOB NUMBER: 005-20-000084
Estimate Cost: 96.00 lakhs.
As No: AS/EE(BTP)/120/2019-20 dt:16-03-20
Ts No :TS/ SE(YNK) /44/2019-20 dt :16-03-20
Name of Contractor : M/S KRIDL

Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1 page No. 1 & 2							Cum	1153.87	207.60	239542.37
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2 Page No. 2 & 3							Cum	173.13	5509.33	953829.73
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For Bottom raft										
	For RCC drain										
	Left Side Cross roads from 2nd main										
	7th B Cross from 2nd main										
	RHS	1	30.00	1.30	0.15	0.15	0.15		5.85		
		1	30.00	1.30	0.15	0.15	0.15		5.85		
		1	30.00	1.30	0.15	0.16	0.16		6.05		
		1	7.50	1.30	0.16	0.15	0.16		1.51		
	LHS										
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.17	0.16		4.80		
		1	30.00	1.00	0.17	0.16	0.17		4.95		
		1	7.50	1.00	0.16	0.15	0.16		1.16		
	6th B Cross from 2nd main road										
	RHS	1	30.00	1.00	0.15	0.14	0.15		4.35		
		1	30.00	1.00	0.14	0.16	0.15		4.50		
		1	28.70	1.00	0.16	0.17	0.17		4.74		
	LHS										
		1	30.00	1.00	0.16	0.16	0.16		4.80		
		1	30.00	1.00	0.16	0.15	0.16		4.65		
		1	28.70	1.00	0.15	0.17	0.16		4.59		
	5th B Cross from 2nd main road										
	RHS	1	30.00	1.00	0.14	0.15	0.15		4.35		
		1	30.00	1.00	0.15	0.16	0.16		4.65		
		1	24.00	1.00	0.16	0.15	0.16		3.72		
	LHS										
		1	30.00	0.95	0.15	0.14	0.15		4.13		
		1	30.00	0.95	0.14	0.15	0.15		4.13		
		1	24.00	0.95	0.15	0.16	0.16		3.53		
	3rd B Cross from 2nd main										
	RHS										
		1	30.00	0.95	0.15	0.15	0.15		1.43		
	2nd B Cross-1 from 2nd main										
	RHS	1	30.00	0.95	0.16	0.15	0.16		4.42		

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		1	30.00	0.95	0.15	0.16	0.16		4.42		
		1	30.00	0.95	0.16	0.15	0.16		4.42		
		1	8.50	0.95	0.15	0.14	0.15		1.17		
	LHS										
		1	30.00	0.95	0.17	0.15	0.16		4.56		
		1	30.00	0.95	0.15	0.14	0.15		4.13		
		1	30.00	0.95	0.14	0.16	0.15		4.28		
		1	8.50	0.95	0.16	0.15	0.16		1.25		
	2nd B Cross-2 from 2nd main										
	RHS	1	30.00	0.95	0.15	0.14	0.15		4.13		
		1	30.00	0.95	0.14	0.15	0.15		4.13		
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	14.50	0.95	0.15	0.17	0.16		2.20		
	LHS										
		1	30.00	0.95	0.16	0.17	0.17		4.70		
		1	30.00	0.95	0.17	0.14	0.16		4.42		
		1	30.00	0.95	0.14	0.15	0.15		4.13		
		1	14.50	0.95	0.15	0.16	0.16		2.14		
	For RCC Culvert										
	Culvert at 3rd B cross	1	7.20	1.70	0.20	0.20	0.20		2.45		
	Culvert at 4th B cross	1	6.20	1.70	0.20	0.20	0.20		2.11		
	Culvert at 5th B cross	1	6.00	1.70	0.20	0.20	0.20		2.04		
	Culvert at 6th B cross	1	5.50	1.70	0.20	0.20	0.20		1.87		
	Culvert at 1st Main road	1	5.20	1.70	0.20	0.20	0.20		1.77		
	Culvert at Saptagiri Layout	1	6.80	1.70	0.20	0.20	0.20		2.31		
	Culvert at Bharathi Public School	1	5.00	1.70	0.20	0.20	0.20		1.70		
	For RCC Wall										
	For RCC drain										
	Left Side Cross roads from 2nd main										
	7th B Cross from 2nd main										
	RHS	2	30.00	0.15	0.65	0.65	0.65		5.85		
		2	30.00	0.15	0.65	0.67	0.66		5.94		
		2	30.00	0.15	0.67	0.69	0.68		6.12		
		2	7.50	0.15	0.69	0.70	0.70		1.56		
	LHS										
		2	30.00	0.15	0.65	0.65	0.65		5.85		
		2	30.00	0.15	0.65	0.65	0.65		5.85		
		2	30.00	0.15	0.65	0.80	0.73		6.53		
		2	7.50	0.15	0.80	0.80	0.80		1.80		
	6th B Cross from 2nd main road										
	RHS	2	30.00	0.15	0.64	0.68	0.66		5.94		
		2	30.00	0.15	0.68	0.69	0.69		6.17		
		2	28.70	0.15	0.69	0.71	0.70		6.03		
	LHS										
		2	30.00	0.15	0.67	0.65	0.66		5.94		
		2	30.00	0.15	0.65	0.69	0.67		6.03		
		2	28.70	0.15	0.69	0.71	0.70		6.03		
	5th B Cross from 2nd main road										
	RHS	2	30.00	0.15	0.66	0.69	0.68		6.08		
		2	30.00	0.15	0.69	0.69	0.69		6.21		
		2	24.00	0.15	0.69	0.71	0.70		5.04		
	LHS										
		2	30.00	0.15	0.62	0.68	0.65		5.85		
		2	30.00	0.15	0.68	0.67	0.68		6.08		
		2	24.00	0.15	0.67	0.70	0.69		4.93		
	3rd B Cross from 2nd main										
	RHS										
		2	30.00	0.15	0.65	0.67	0.66		1.98		
	2nd B Cross-1 from 2nd main										
	RHS	2	30.00	0.15	0.63	0.70	0.67		5.99		
		2	30.00	0.15	0.70	0.65	0.68		6.08		
		2	30.00	0.15	0.65	0.69	0.67		6.03		
		2	8.50	0.15	0.69	0.71	0.70		1.79		
	LHS										

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		2	30.00	0.15	0.68	0.67	0.68		6.08			
		2	30.00	0.15	0.67	0.67	0.67		6.03			
		2	30.00	0.15	0.67	0.69	0.68		6.12			
		2	8.50	0.15	0.69	0.70	0.70		1.77			
	2nd B Cross-2 from 2nd main											
	RHS	2	30.00	0.15	0.63	0.65	0.64		5.76			
		2	30.00	0.15	0.65	0.67	0.66		5.94			
		2	30.00	0.15	0.67	0.67	0.67		6.03			
		2	14.50	0.15	0.67	0.70	0.69		2.98			
	LHS											
		2	30.00	0.15	0.69	0.70	0.70		6.26			
		2	30.00	0.15	0.70	0.68	0.69		6.21			
		2	30.00	0.15	0.68	0.68	0.68		6.12			
		2	14.50	0.15	0.68	0.70	0.69		3.00			
	For RCC Culvert											
	Culvert at 3rd B cross	2	7.20	0.45	0.60	0.65	0.63		4.05			
	Culvert at 4th B cross	2	6.20	0.45	0.65	0.65	0.65		3.63			
	Culvert at 5th B cross	2	6.00	0.45	0.70	0.70	0.70		3.78			
	Culvert at 6th B cross	2	5.50	0.45	0.60	0.60	0.60		2.97			
	Culvert at 1st Main road	2	5.20	0.45	0.75	0.75	0.75		3.51			
	Culvert at Saptagiri Layout	2	6.80	0.45	0.60	0.60	0.60		3.67			
	Culvert at Bharathi Public School	2	5.00	0.45	0.60	0.60	0.60		2.70			
	Ramp For RCC Culvert											
	Culvert at 3rd B cross	2	7.20	0.75	0.17	0.15	0.16		1.73			
	Culvert at 4th B cross	2	6.20	0.80	0.15	0.15	0.15		1.49			
	Culvert at 5th B cross	2	6.00	0.75	0.17	0.17	0.17		1.53			
	Culvert at 6th B cross	2	5.50	0.90	0.15	0.15	0.15		1.49			
	Culvert at 1st Main road	2	5.20	0.75	0.15	0.15	0.15		1.17			
	Culvert at Saptagiri Layout	2	6.80	0.75	0.15	0.15	0.15		1.53			
	Culvert at Bharathi Public School	2	5.00	0.75	0.15	0.15	0.15		1.13			
								Present Qty	389.58	7189.42	2800879.60	
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position.lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications											
	Qty Taken from Pre measurement page Item No. 3 Page No. 4 to 7							**Tonne**	25.93	72326.98	1875278.35	
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)											
	For RCC drain											
	Left Side Cross roads from 2nd main											
	7th B Cross from 2nd main road											
	RHS	1	30.00	1.20					36.00			
		1	30.00	1.20					36.00			
		1	30.00	1.20					36.00			
		1	7.50	1.20					9.00			
	LHS											
		1	26.00	0.90					23.40			
		1	30.00	0.90					27.00			
		1	30.00	0.90					27.00			
		1	7.50	0.90					6.75			
	6th B Cross from 2nd main road											
	RHS	1	30.00	0.90					27.00			
		1	30.00	0.90					27.00			
		1	28.70	0.90					25.83			
	LHS											
		1	30.00	0.90					27.00			

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		1	30.00	0.90					27.00		
		1	28.70	0.90					25.83		
	5th B Cross from 2nd main road										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	24.00	0.90					21.60		
	LHS										
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	24.00	0.90					21.60		
	3rd B Cross from 2nd main										
	RHS	1	10.00	0.90					9.00		
	2nd B Cross-1 from 2nd main										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	8.50	0.90					7.65		
	LHS										
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	8.50	0.90					7.65		
	2nd B Cross-2 from 2nd main										
	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	14.50	0.90					13.05		
	LHS										
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	14.50	0.90					13.05		
							Present Qty=	**Sqm**	**886.41**	**2337.00**	**2071540.17**
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008.Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour.HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)										
	For RCC Culvert										
	Culvert at 3rd B cross	1	7.20	1.50					10.80		
	Culvert at 4th B cross	1	6.20	1.50					9.30		
	Culvert at 5th B cross	1	6.00	1.50					9.00		
	Culvert at 6th B cross	1	5.50	1.50					8.25		
	Culvert at 1st Main road	1	5.20	1.50					7.80		
	Culvert at Saptagiri Layout	1	6.80	1.50					10.20		
	Culvert at Bharathi Public School	1	5.00	1.50					7.50		
							Present Qty		**62.85**		
							Limited to Qty=	**Sqm**	**60.60**	**5418.00**	**328330.80**
										Total	**8269401.02**
										GST Charges 12%	**992328.12**
										KRIDL Charges 4%	**330776.04**
										Grand Total	**9592505.19**

Assistant Engineer
Ward No.05
15/6/20

Assistant Executive Engineer
Byatarayanapura Sub-Division
15/6/2020

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Name of work:Improvements to CC Roads and RCC Drains at Left Side Cross Roads of 2nd Main Road Kuvempu Nagara, and Surrounding area in Ward No.05

Pre-Measurements

	Pre measurement recorded on:						
Item No	**Discription of Item**	**No**	**Length**	**Breadth**	**Depth**	**Qty**	**Unit**
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 143/ Item No. 19.1/ PWD SR 2018-19)						
	For RCC drain						
	Left Side Cross roads from 2nd main road						
	7th B Cross from 2nd main road						
	RHS	1	30.00	1.50	1.00	45.00	
		1	30.00	1.50	1.00	45.00	
		1	30.00	1.50	1.00	45.00	
		1	7.50	1.50	1.00	11.25	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	7.50	1.10	1.00	8.25	
	6th B Cross from 2nd main road						
	RHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	28.70	1.10	1.00	31.57	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	28.70	1.10	1.00	31.57	
	5th B Cross from 2nd main road						
	RHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	24.00	1.10	1.00	26.40	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	24.00	1.10	1.00	26.40	
	3rd B Cross from 2nd main road						
	RHS						
		1	10.00	1.10	0.90	9.90	
	2nd B Cross-1 from 2nd main road						
	RHS	1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	8.50	1.10	1.00	9.35	

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	8.50	1.10	1.00	9.35	
	2nd B Cross-2 from 2nd main road						
	RHS	1	30.00	1.10	0.90	29.70	
		1	30.00	1.10	0.90	29.70	
		1	30.00	1.10	0.90	29.70	
		1	14.50	1.10	0.90	14.36	
	LHS						
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	30.00	1.10	1.00	33.00	
		1	14.50	1.10	1.00	15.95	
	For RCC Culvert						
	Culvert at 3rd B cross	1	7.20	2.00	0.90	12.96	
	Culvert at 4th B cross	1	6.20	2.00	0.90	11.16	
	Culvert at 5th B cross	1	6.00	2.00	0.90	10.80	
	Culvert at 6th B cross	1	5.50	2.00	0.90	9.90	
	Culvert at 1st Main road	1	5.20	2.00	0.90	9.36	
	Culvert at Saptagiri Layout	1	6.80	2.00	0.90	12.24	
	Culvert at Bharathi Public School	1	5.00	2.00	0.90	9.00	
					Present Qty	**1153.87**	**Cum**

c/p RC 17/5/2020

27/3/20

Assistant Engineer
Ward No.05

17/5/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 pwd 2018-19)						
	For RCC drain						
	Left Side Cross roads from 2nd main road						
	7th B Cross from 2nd main road						
	RHS	1	30.00	1.50	0.15	6.75	
		1	30.00	1.50	0.15	6.75	
		1	30.00	1.50	0.15	6.75	
		1	7.50	1.50	0.15	1.69	
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	7.50	1.10	0.15	1.24	
	6th B Cross from 2nd main road						

c/p RC 17/5/2020

22/4/20

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	28.70	1.10	0.15	4.74	
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	28.70	1.10	0.15	4.74	
	5th B Cross from 2nd main road RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	24.00	1.10	0.15	3.96	
	LHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.10	0.15	4.95	
		1	24.00	1.10	0.15	3.96	
	3rd B Cross from 2nd main road						
		1	0.00	1.00	0.15	0.00	
	2nd B Cross-1 from 2nd main road						
	RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	8.50	1.10	0.15	1.40	
	LHS	1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	8.50	1.10	0.15	1.40	
	2nd B Cross-2 from 2nd main road						
	RHS	1	30.00	1.10	0.15	4.95	
		1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	14.50	1.05	0.15	2.28	
	LHS	1	30.00	1.05	0.15	4.73	
		1	30.00	1.10	0.15	4.95	
		1	30.00	1.05	0.15	4.73	
		1	14.50	1.05	0.15	2.28	
	For RCC Culvert						
	Culvert at 3rd B cross	1	7.20	1.90	0.15	2.05	
	Culvert at 4th B cross	1	6.20	1.90	0.15	1.77	
	Culvert at 5th B cross	1	6.00	1.90	0.15	1.71	
	Culvert at 6th B cross	1	5.50	1.90	0.15	1.57	
	Culvert at 1st Main road	1	5.20	1.90	0.15	1.48	
	Culvert at Saptagiri Layout	1	6.80	1.90	0.15	1.94	
	Culvert at Bharathi Public School	1	5.00	1.80	0.15	1.35	
					Present Qty	**171.63**	**Cum**

Assistant Engineer
Ward No.05

Asst. Executive Engineer,
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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-						
	Kuvempu Nagara						
	7th B Cross						
	RHS						
	Total Drain length=97.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=780 No's	780	2.70		0.62	1299.40	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	26	97.50		0.62	1564.10	
	LHS						
	Total Drain length=97.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=780 No's	780	2.30		0.62	1106.90	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	97.50		0.62	1203.15	
	6th B Cross						
	RHS						
	Total Drain length=88.70Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=710 No's	710	2.30		0.62	1007.56	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	88.70		0.62	1094.56	
	LHS						
	Total Drain length=88.70Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=710 No's	710	2.30		0.62	1007.56	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	88.70		0.62	1094.56	
	5th B Cross						
	RHS						
	Total Drain length=84.00Mtr						

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=672 No's	672	2.30		0.62	953.64	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	84.00		0.62	1036.56	
	LHS						
	Total Drain length=84.00Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=672 No's	672	2.30		0.62	953.64	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	84.00		0.62	1036.56	
	3rd B Cross						
	RHS						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=80 No's	80	2.30		0.62	113.53	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	10.00		0.62	123.40	
	2nd B Cross-1						
	RHS						
	Total Drain length=98.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=788 No's	788	2.30		0.62	1118.25	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	98.50		0.62	1215.49	
	LHS						
	Total Drain length=98.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=788 No's	788	2.30		0.62	1118.25	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	98.50		0.62	1215.49	
	2nd B Cross-2						
	RHS						
	Total Drain length=104.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	No of U Bars=836 No's	836	2.30		0.62	1186.37	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	104.50		0.62	1289.53	
	LHS						
	Total Drain length=104.50Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.617kg/mtr						
	No of U Bars=836 No's	836	2.30		0.62	1186.37	
	Distribution bar 10mm dia @ 125mm c/c						
	0.617kg/mtr	20	104.50		0.62	1289.53	
	For RCC Culvert						
	Culvert at 3rd B cross						
	Total Drain length=7.20m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	57	2.90		0.89	147.12	
	Bottom	57	2.90		0.89	147.12	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	7.20		0.62	85.89	
	Bottom	19	7.20		0.62	85.89	
	Culvert at 4th B cross						
	Total Drain length=6.20m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	50	2.90		0.89	129.05	
	Bottom	50	2.90		0.89	129.05	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	6.20		0.62	73.96	
	Bottom	19	6.20		0.62	73.96	
	Culvert at 5th B cross						
	Total Drain length=6.00m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	48	2.90		0.89	123.89	
	Bottom	48	2.90		0.89	123.89	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	6.00		0.62	71.57	
	Bottom	19	6.00		0.62	71.57	
	Culvert at 6th B cross						
	Total Drain length=5.50m						
	Main bar 12mm dia bar @ 125mm c/c						

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Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	0.89kg/mtr						
	Top	42	2.90		0.89	108.40	
	Bottom	42	2.90		0.89	108.40	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	5.50		0.62	65.61	
	Bottom	19	5.50		0.62	65.61	
	Culvert at 1st main road						
	Total Drain length=5.20m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	42	2.90		0.89	108.40	
	Bottom	42	2.90		0.89	108.40	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	5.20		0.62	62.03	
	Bottom	19	5.20		0.62	62.03	
	Culvert at Saptagiri Layout						
	Total Drain length=6.80m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	53	2.90		0.89	136.79	
	Bottom	53	2.90		0.89	136.79	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	6.80		0.62	81.11	
	Bottom	19	6.80		0.62	81.11	
	Culvert at Bharathi Public School						
	Total Drain length=5.00m						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	40	2.90		0.89	103.24	
	Bottom	40	2.90		0.89	103.24	
	Distribution bar						
	Distribution bar 10mm dia @ 150mm c/c						
	0.617kg/mtr Top	19	5.00		0.62	59.64	
	Bottom	19	5.00		0.62	59.64	
					Present Qty	**25927.78**	**Kg**
					Present Qty	**25.93**	**Tonne**

24/5/20

Assistant Engineer
Ward No.05

24/5/2020

Asst. Executive Engineer,
Byatarayanapura Sub division

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